Math 0031 Schedule and Practice Problems

Based on a Monday/Wednesday/Friday schedule

January 10: Introduction to Graphing
1.1 (p.14) Numbers 7, 11-21 odd, 27, 33, 37, 43-51 odd, 57-65 odd, 75-95 odd

January 12: Functions and Graphs
1.2 (p.27) Numbers 5, 7, 14, 19-27 odd, 31-35 odd, 45-51 odd, 59-63 odd, 67-69, 79-87 odd

January 14: Linear Functions, Slopes and Applications
1.3 (p.44) Numbers 1-7 odd, 8, 9, 23-35 odd, 41-47 odd, 55-65 odd, 71-77 odd

January 19: Equations of Lines and Modeling
1.4 (p.59) Numbers 1-43 odd, 47, 48, 52, 53, 56, 63, 65

January 21: Linear Equations, Functions, Zeros and Applications
1.5 (p.74) Numbers 25-85 odd

January 24: Solving Linear Inequalities
1.6 (p.83) Numbers 9-21 odd, 31-41 odd, 45-51 odd
Chapter 1 Review and Chapter 1 Test pp. 91-96

January 26: Increasing Decreasing and Piecewise Functions
2.1 (p.106) Numbers 13-33 odd, 39-47 odd, 61, 63

January 28: The Algebra of Functions
2.2 (p.116) Numbers 1-5 odd, 21-31 odd, 47, 53-69 odd

January 31: The Composition of Functions
2.3 (p.124) Numbers 5-15 odd, 25-35 odd, 41, 43, 49, 51
Mid-Chapter Mixed Review p.125

February 2: Symmetry and Transformations
2.4 (p.132) Numbers 15-31 odd, 39-47 odd
2.5 (p.144) Numbers 1-21 odd, 37-43 odd, 49-52

February 4: Variation and Application
2.6 (p.152) Numbers 5-11 odd, 15-38 odd
Chapter 2 Review and Chapter Test pp. 162-166

February 7: The Complex Numbers
3.1 (p.172) Numbers 1-87 odd

February 9: Quadratic Equations, Functions, Zeros and Models
3.2 (p.185) Numbers 1-91 odd, 95-107 odd

February 11: Analyzing Graphs of Polynomial Functions
3.3 (p.199) Numbers 3-15 odd, 17-24, 31-39 odd, 41-53 odd
Mid-Chapter Mixed Review p.202

February 14: Solving Rational and Radical Equations
3.4 (p.209) Numbers 1-65 odd

February 16: Solving Equations and Inequalities with Absolute Value
3.5 (p.213) Numbers 1-63 odd
Chapter 3 Review and Chapter Test pp. 220-224

February 18: Review

February 21: Exam I

February 23: Polynomial Functions and Models
4.1 (p.235) Numbers 19-26, 27-41 odd, 43-46, 47-55 odd

February 25: Graphing Polynomials
4.2 (p.247) Numbers 13-45 odd

February 28: Polynomial Division: The Remainder and Factor Theorems
4.3 (p.254) Numbers 5-22, 39-48
Mid-Chapter Mixed Review p.256

March 2: Theorems about Zeros of Polynomial Functions
4.4 (p.264) Numbers 1-15 odd, 25-69 odd
March 4: Rational Functions  
4.5 (p.281) Numbers 7-12, 13-31 odd

March 14: Rational Functions  
4.5 (p.281) Numbers 35-65 odd, 83

March 16: Polynomial and Rational Inequalities  
4.6 (p.292) Numbers 1-63 odd, 79 
Chapter 4 Review and Chapter Test p.305-310

March 18: Inverse Functions  
5.1 (p.319) Numbers 25-31 odd, 47-57 odd, 61-65, 79-85 odd, 91, 92

March 21: Exponential Functions and Graphs  
5.2 (p.330) Numbers 5-10, 15, 17, 27-45 odd, 51-75 odd

March 23: Logarithmic Functions and Graphs  
5.3 (p.345) Numbers 1-91 odd, 95, 97, 101 
Mid-Chapter Mixed Review p.347

March 25: Properties of Logarithms  
5.4 (p.355) Numbers 1-75 odd

March 28: Solving Exponential Equations  
5.5 (p.365) Numbers 1-61 odd

March 30: Applications and Models: Growth and Decay  
5.6 (p.376) Numbers 1-21 odd 
Chapter 4 Review and Chapter Test p.388-391

April 1: REVIEW

April 4: EXAM II

April 6: System of Equations in Two Variables  
6.1 (p.405) Numbers 1-6, 31-69 odd

April 8: System of Equations in Three Variables  
6.2 (p.414) Numbers 1-15 odd, 25-33 odd

April 11: Matrices and Row Operations  
6.3 (p.423) Numbers 7-13 odd, 23-41 odd

April 13: Matrix Operations  
6.4 (p.432) Numbers 5, 9, 15-23 odd, 27, 31, 39-45 odd 
Mid-Chapter Mixed Review p.435

April 15: Inverse Matrix  
6.5 (p.440) Numbers 5, 11-17 odd, 25-37 odd, 41

April 18: Determinants and Cramer's Rule  
6.6 (p.448) Numbers 1-7 odd, 23, 27-37 odd

April 20: Systems of Inequalities and Linear Programming  
6.7 (p.457) Numbers 1-7, 11, 17, 19, 21, 49-59 odd, 65, 67, 71, 73

April 22: Review

TBA: 
Final Exam (all day sections)